UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT: Toxicological Review of HW57 Data — 18 April 2012
Dimock, PA

FROM: Dawn A. Ioven, toxicologist
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TO: Rich Fetzer, OSC
Eastern Response Branch (3HS31)

On 14 February 2012, U.S. EPA collected water samples from HW57 in Dimock. The samples were analyzed for over 200 constituents, including volatile organic compounds, semi-volatile compounds, metals and bacteria. The analytical results were then validated and compared to risk-based screening levels and/or standards for public drinking water supplies.

Arsenic

Arsenic was observed at a concentration of 5.8 ug/L in an unfiltered wellhead sample from HW57. Additional samples collected at the wellhead (filtered) and the tap (unfiltered and filtered) had no detected arsenic. The risk-based screening level for arsenic in tap water is 4.5 ug/L (at an excess cancer risk of 1E-04), while the enforceable drinking standard for public water supplies is 10 ug/L. Since no arsenic was observed in tap samples at this residence, no risk is anticipated.

Iron

An unfiltered wellhead sample collected from HW57 contained iron at 11,200 ug/L. No other samples collected from this residence (filtered wellhead, unfiltered and filtered tap) contained any detectable iron. The risk-based screening level for long-term exposure to iron in tap water is 11,000 ug/L. The non-enforceable drinking water standard for iron in public supplies is 300 ug/L; this value is based on aesthetic considerations, such as taste and staining, not health endpoints. No risk associated with iron in tap water is anticipated at this residence.

No other constituents were detected at levels of concern in this well.